Ahmed Abid

Tunisia | smartahmadabid@gmail.com | +216 27 488 640 | Linkedin Link

11x Hackathon Prize Winner seeking Internship in STEM.

Education

Innopolis University   **Graduation Date:** – Sep 2026

Bachelor's degree in robotics engineering.

Professional Experience

Brainrot Hackathon, Backend developer   Jul 2021 – Aug 2021

- Formed a team with students I met throughout the Nosu discord server and won 6 prizes with TalkTuahTaxer.
- Built a scraper for Amazon products and made custom text-to-voice models for the Chrome extension to make it more interactive with the user.

STEM Association, Robotics Engineer Intern   Jan 2020 – Jul 2021

- Constructed a comprehensive test plan, successfully executing more than 20 test flights to ensure the functionality and reliability of the CanSat prototype, resulting in a success rate 95% during testing.
- Led a team of 6 members to win ACTINSPACE hackathon solving clean energy generation problems.
- troubleshooting hardware, our communication device completely stopped working 30 minutes before flight in front of national television, it's such moments that you become grateful for having a backup plan.
.

Innopolis university, Tutor   Sept 2023 – Jan 2025

- Taught 1st year university students Programming in C and mathematics.

Projects

Mobile platform AGV   Github Link

- Led interdisciplinary hardware and electronics team over more than 30 members in the development of an autonomous self-driving robot platform, capable of transporting up to 100kg, ensuring adherence to strict industrial specifications.
- Implemented advanced technologies such as 2D LiDAR, Depth camera, Ultrasound sensors to enhance the robot's navigation and obstacle avoidance capabilities.
- Tools Used: ROS, Solidworks, NX, Eagle, c++, python.

Stamps Recognition using Computer vision   Jul 2023 - Aug 2023

- Developed and implemented advanced CNN architectures for stamp image recognition, resulting in a 98% accuracy rate to identify various denominations of stamps.
- Designed and integrated a robust feature extraction pipeline that improved the model's ability to handle various image quality issues, such as creases, folds, and watermarks.
- Tools Used: Python, OpenCV

Road Lane Detection   Oct 2024 - Dec 2024

- Built real-time lane detection model using computer vision and CNN, applied Gaussian filters for higher accuracy and has.
- Tools used: Python, PyTorch, OpenCV, YOLO.

Technologies

Languages: C++, C, Python, ROS, Javascript, Java.

Technologies: Nvidia boards, Solidworks, Encoders, Lidar
MicroPython, OpenCV, DeepLearning, python, C++, C, Java, node Js, React.